BRIAN MARKS

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EDUCATION

May 2016	**NYU Tandon School of Engineering**
	Bachelors of Science in Computer Science, GPA 3.8
	• Minors in Physics and Mathematics

SKILLS

Computer Science and Programming

- Programming in Python, PHP, Perl, Ksh, Awk, C#, C++, Java, MATLAB
- Machine Learning algorithms using MATLAB and Weka
- Scientific computing using MATLAB and Python
- Basic quantum computing and qubit manipulation
- Database design, normalization, and queries in MySQL, MSSQL, PGSQL
- Game programming, design, and AI in XNA using C#
- Agile software engineering with scrum methodology
- Cryptographic techniques using Crypto++ and Python's cryptography library
- Source control and configuration management with Git and Clearcase

Projects

- Computational physics project to model 2D surface waves using MATLAB
- PacMan AI using tree search, optimization, as well as machine learning
- Web-based online match-making and compatibility web service for video gamers using machine learning techniques
- Cryptographic tools to use frequency analysis to decrypt cipher texts similar to WEP
- 2D platforming game with non-deterministic boss AI called 'Acid Island'
- Social networking web service called 'Wildbook' for outdoor events and activities
- Block file system using Lind-fuse and RePy

EXPERIENCE

June 2015 – Present	Software Development Environment Co-op, **Nokia**

- Developed and maintained Unix and Windows utilities to assist developers working on LTE features
- Designed and supported several tools using Perl, Ksh, and Awk to sift through ClearCase data to develop statistics of usage for Views and Vobs
- Coordinated the development of a web service using PHP, JavaScript, and HTML to create and display custom pivoted reports
- Researched and built a Python application to visualize large GNU Makefiles
- Initiated and created a Python application to parse large log files using regular expression matching

June 2013 – December 2014	Technical Consultant, **Ford Foundation**

- Developed small scripts as well as medium sized applications to assist in server management, application deployment, and report generating
- Built and maintained database systems and Microsoft servers
- Managed various security software such as Bit9, CarbonBlack, and Symantec Antivirus

September 2010 – June 2012	Help Desk Support, **NYC Department of Education**

- Provided technical support to various network, hardware, and software related issues